

531,483

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
27 May 2004 (27.05.2004)

PCT

(10) International Publication Number  
**WO 2004/044060 A1**

- (51) International Patent Classification<sup>7</sup>: **C09C 1/00**
- (21) International Application Number:  
PCT/EP2003/050777
- (22) International Filing Date:  
3 November 2003 (03.11.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
02405978.4 13 November 2002 (13.11.2002) EP  
03405026.0 23 January 2003 (23.01.2003) EP
- (71) Applicant (for all designated States except US): **CIBA SPECIALTY CHEMICALS HOLDING INC.** [CH/CH]; Klybeckstrasse 141, CH-4057 Basel (CH).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **BUJARD, Patrice** [CH/CH]; Oberer Rebbergweg 29, CH-4153 Reinach (CH).
- (74) Common Representative: **CIBA SPECIALTY CHEMICALS HOLDING INC.**; Patent Department, Klybeckstrasse 141, CH-4057 Basel (CH).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**  
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: NOVEL INTERFERENCE PIGMENTS

(57) Abstract: The present invention relates to pigments, comprising (A) optionally a layer consisting of a metal, (B) at least one layer, which is located between the layers (A) and (C), if a layer (A) is 5 present, and consists of the metal, silicon (Si) and oxygen (O), and (C) optionally a layer consisting of SiO<sub>2</sub> with  $0.70 \leq z \leq 2.0$  on layer (B), a process for the production of the pigments and their use in ink-jet printing, for dyeing textiles, for pigmenting coatings, paints, printing inks, plastics, cosmetics, glazes for ceramics and glass.

WO 2004/044060 A1